



IES INDOOR REPORT

PHOTOMETRIC FILENAME : EGW-4-LED-17L-DA-S-40-80.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] 3611

[TESTLAB] TUV SUD America

[TESTDATE] 12/11/2018 8:15:50 AM

[ISSUEDATE] 03/11/21

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] EGW-4-LED-17L-DA-S-40-80

[OTHER] TEST PROCEDURE: IESNA LM-79-08

[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED

[OTHER] SCALED FROM ORIGINAL TEST DATA

[SEARCH_SOURCETYPE] LED

[SEARCH_APPLICATION] Indoor

[SEARCH_COLORTEMP] 4000

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	17950
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	138
Total Luminaire Watts	130
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	1.00 ft
Luminous Height	0.33 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13836	11953	11654
55	11872	9709	9558
65	11827	7480	6992
75	11048	6019	4395
85	10685	4001	1791

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	6001	6001	6001	6001	6001	6001	6001	6001	6001	6001
2.5	6217	6141	5994	5803	5775	5803	5994	6141	6217	6141
5.0	6198	6124	5975	5799	5763	5799	5975	6124	6198	6124
7.5	6170	6101	5951	5783	5763	5783	5951	6101	6170	6101
10.0	6128	6065	5916	5760	5737	5760	5916	6065	6128	6065
12.5	6076	6015	5871	5724	5699	5724	5871	6015	6076	6015
15.0	6012	5953	5815	5677	5652	5677	5815	5953	6012	5953
17.5	5931	5874	5752	5632	5604	5632	5752	5874	5931	5874
20.0	5835	5783	5674	5566	5537	5566	5674	5783	5835	5783
22.5	5721	5678	5589	5485	5464	5485	5589	5678	5721	5678
25.0	5593	5557	5480	5389	5375	5389	5480	5557	5593	5557
27.5	5460	5422	5359	5277	5269	5277	5359	5422	5460	5422
30.0	5304	5276	5225	5158	5159	5158	5225	5276	5304	5276
32.5	5135	5113	5078	5024	5026	5024	5078	5113	5135	5113
35.0	4940	4931	4911	4869	4878	4869	4911	4931	4940	4931
37.5	4727	4733	4730	4702	4715	4702	4730	4733	4727	4733
40.0	4491	4510	4523	4511	4526	4511	4523	4510	4491	4510
42.5	4233	4265	4302	4303	4316	4303	4302	4265	4233	4265
45.0	3942	3997	4069	4078	4086	4078	4069	3997	3942	3997
47.5	3636	3709	3811	3836	3837	3836	3811	3709	3636	3709
50.0	3336	3404	3537	3574	3573	3574	3537	3404	3336	3404
52.5	3059	3104	3244	3298	3295	3298	3244	3104	3059	3104
55.0	2834	2837	2942	3014	3009	3014	2942	2837	2834	2837
57.5	2661	2619	2650	2730	2719	2730	2650	2619	2661	2619
60.0	2517	2443	2379	2448	2431	2448	2379	2443	2517	2443
62.5	2365	2285	2136	2176	2152	2176	2136	2285	2365	2285
65.0	2191	2125	1918	1910	1884	1910	1918	2125	2191	2125
67.5	1998	1949	1726	1657	1626	1657	1726	1949	1998	1949
70.0	1796	1759	1552	1426	1387	1426	1552	1759	1796	1759
72.5	1592	1566	1384	1209	1163	1209	1384	1566	1592	1566
75.0	1394	1372	1216	1005	949	1005	1216	1372	1394	1372
77.5	1205	1184	1042	823	754	823	1042	1184	1205	1184
80.0	1009	989	868	657	575	657	868	989	1009	989
82.5	834	816	709	506	412	506	709	816	834	816
85.0	676	661	566	378	279	378	566	661	676	661
87.5	531	520	445	282	182	282	445	520	531	520
90.0	411	403	348	218	136	218	348	403	411	403
92.5	317	313	275	181	123	181	275	313	317	313
95.0	249	247	223	158	117	158	223	247	249	247
97.5	204	203	189	142	113	142	189	203	204	203
100.0	176	176	165	128	109	128	165	176	176	176
102.5	159	159	148	116	104	116	148	159	159	159
105.0	148	147	135	106	96	106	135	147	148	147
107.5	141	138	125	96	88	96	125	138	141	138
110.0	135	131	116	87	80	87	116	131	135	131
112.5	129	125	109	78	71	78	109	125	129	125
115.0	123	118	101	68	63	68	101	118	123	118
117.5	117	112	94	59	55	59	94	112	117	112
120.0	112	105	87	51	48	51	87	105	112	105
122.5	106	99	79	44	41	44	79	99	106	99
125.0	99	92	72	37	36	37	72	92	99	92
127.5	92	85	64	31	32	31	64	85	92	85
130.0	85	77	56	26	29	26	56	77	85	77
132.5	78	69	48	23	25	23	48	69	78	69

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CANDELA TABULATION - (Cont.)

135.0	70	62	41	20	22	20	41	62	70	62
137.5	62	54	34	19	20	19	34	54	62	54
140.0	54	47	28	17	18	17	28	47	54	47
142.5	47	41	22	16	17	16	22	41	47	41
145.0	41	34	18	15	16	15	18	34	41	34
147.5	34	29	14	14	14	14	14	29	34	29
150.0	28	23	13	13	13	13	13	23	28	23
152.5	22	18	13	12	13	12	13	18	22	18
155.0	18	15	13	12	12	12	13	15	18	15
157.5	15	15	13	13	12	13	13	15	15	15
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles						
	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	6001	6001	6001	6001	6001	6001	6001
2.5	5994	5803	5775	5803	5994	6141	6217
5.0	5975	5799	5763	5799	5975	6124	6198
7.5	5951	5783	5763	5783	5951	6101	6170
10.0	5916	5760	5737	5760	5916	6065	6128
12.5	5871	5724	5699	5724	5871	6015	6076
15.0	5815	5677	5652	5677	5815	5953	6012
17.5	5752	5632	5604	5632	5752	5874	5931
20.0	5674	5566	5537	5566	5674	5783	5835
22.5	5589	5485	5464	5485	5589	5678	5721
25.0	5480	5389	5375	5389	5480	5557	5593
27.5	5359	5277	5269	5277	5359	5422	5460
30.0	5225	5158	5159	5158	5225	5276	5304
32.5	5078	5024	5026	5024	5078	5113	5135
35.0	4911	4869	4878	4869	4911	4931	4940
37.5	4730	4702	4715	4702	4730	4733	4727
40.0	4523	4511	4526	4511	4523	4510	4491
42.5	4302	4303	4316	4303	4302	4265	4233
45.0	4069	4078	4086	4078	4069	3997	3942
47.5	3811	3836	3837	3836	3811	3709	3636
50.0	3537	3574	3573	3574	3537	3404	3336
52.5	3244	3298	3295	3298	3244	3104	3059
55.0	2942	3014	3009	3014	2942	2837	2834
57.5	2650	2730	2719	2730	2650	2619	2661
60.0	2379	2448	2431	2448	2379	2443	2517
62.5	2136	2176	2152	2176	2136	2285	2365
65.0	1918	1910	1884	1910	1918	2125	2191
67.5	1726	1657	1626	1657	1726	1949	1998
70.0	1552	1426	1387	1426	1552	1759	1796
72.5	1384	1209	1163	1209	1384	1566	1592
75.0	1216	1005	949	1005	1216	1372	1394
77.5	1042	823	754	823	1042	1184	1205
80.0	868	657	575	657	868	989	1009

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82.5	709	506	412	506	709	816	834
85.0	566	378	279	378	566	661	676
87.5	445	282	182	282	445	520	531
90.0	348	218	136	218	348	403	411
92.5	275	181	123	181	275	313	317
95.0	223	158	117	158	223	247	249
97.5	189	142	113	142	189	203	204
100.0	165	128	109	128	165	176	176
102.5	148	116	104	116	148	159	159
105.0	135	106	96	106	135	147	148
107.5	125	96	88	96	125	138	141
110.0	116	87	80	87	116	131	135
112.5	109	78	71	78	109	125	129
115.0	101	68	63	68	101	118	123
117.5	94	59	55	59	94	112	117
120.0	87	51	48	51	87	105	112
122.5	79	44	41	44	79	99	106
125.0	72	37	36	37	72	92	99
127.5	64	31	32	31	64	85	92
130.0	56	26	29	26	56	77	85
132.5	48	23	25	23	48	69	78
135.0	41	20	22	20	41	62	70
137.5	34	19	20	19	34	54	62
140.0	28	17	18	17	28	47	54
142.5	22	16	17	16	22	41	47
145.0	18	15	16	15	18	34	41
147.5	14	14	14	14	14	29	34
150.0	13	13	13	13	13	23	28
152.5	13	12	13	12	13	18	22
155.0	13	12	12	12	13	15	18
157.5	13	13	12	13	13	15	15
160.0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2212.38	N.A.	12.30
0-30	4736.81	N.A.	26.40
0-40	7801.35	N.A.	43.50
0-60	13538.96	N.A.	75.40
0-80	16783.47	N.A.	93.50
0-90	17370.21	N.A.	96.80
10-90	16801.87	N.A.	93.60
20-40	5588.96	N.A.	31.10
20-50	8695.6	N.A.	48.40
40-70	7719.08	N.A.	43.00
60-80	3244.51	N.A.	18.10
70-80	1263.05	N.A.	7.00
80-90	586.73	N.A.	3.30
90-110	370.04	N.A.	2.10
90-120	464.85	N.A.	2.60
90-130	525.39	N.A.	2.90
90-150	573.90	N.A.	3.20
90-180	579.98	N.A.	3.20
110-180	209.95	N.A.	1.20
0-180	17950.19	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	568.34
10-20	1644.05
20-30	2524.43
30-40	3064.53
40-50	3106.63
50-60	2630.98
60-70	1981.46
70-80	1263.05
80-90	586.73
90-100	233.37
100-110	136.66
110-120	94.81
120-130	60.54
130-140	33.17
140-150	15.35
150-160	6.08
160-170	0.00
170-180	0.00

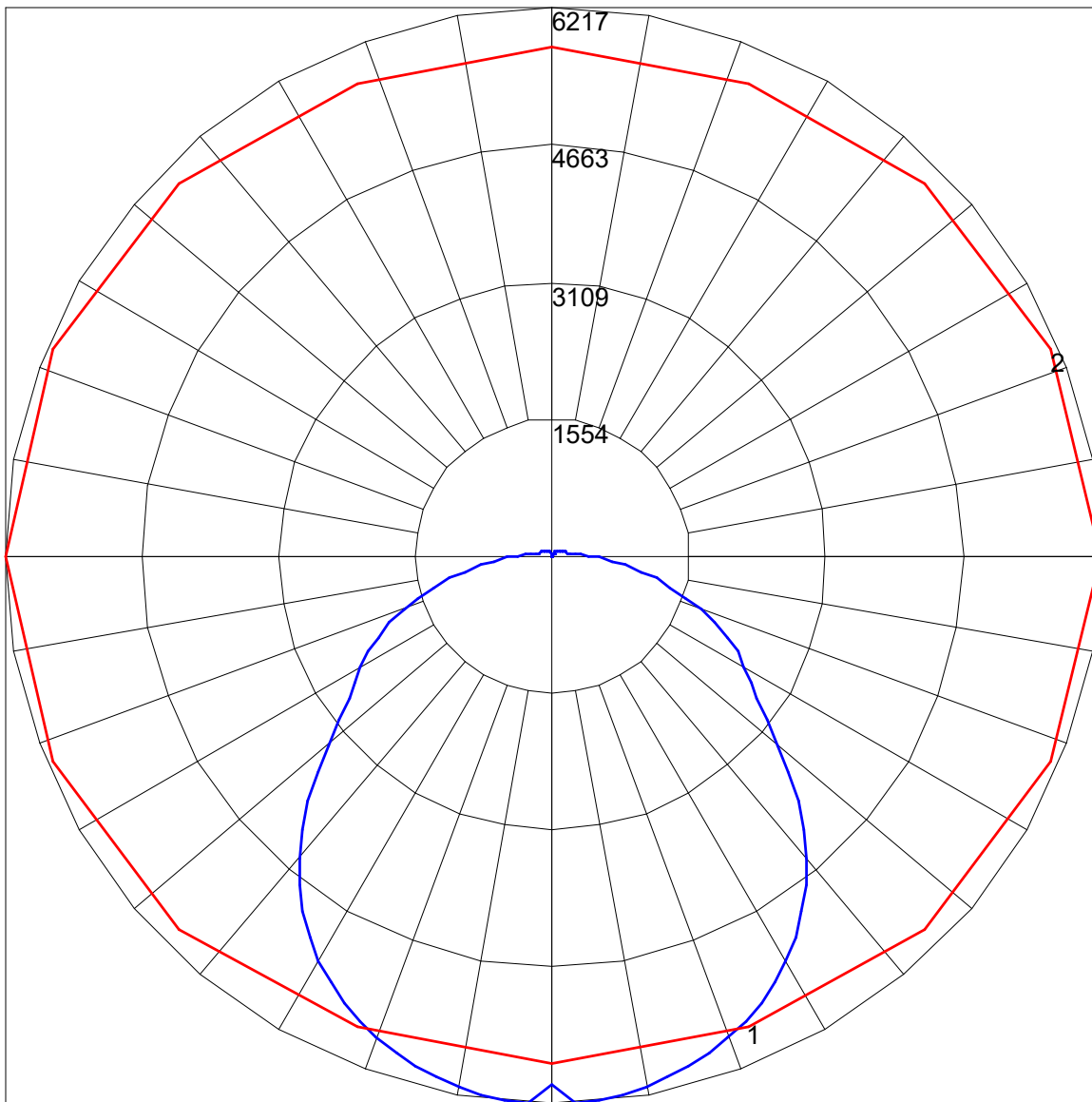
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	97
1	107	102	98	94	104	100	96	92	95	92	89	91	88	85	86	84	82	80
2	98	89	82	76	95	87	81	75	83	78	73	79	75	71	76	72	69	66
3	89	78	70	64	86	77	69	63	73	67	61	70	64	60	67	62	58	56
4	82	69	61	54	79	68	60	53	65	58	52	62	56	51	60	55	50	48
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	54	48	44	41
6	69	56	47	41	67	55	46	40	53	45	40	51	44	39	49	43	38	36
7	64	51	42	36	62	50	41	36	48	40	35	46	40	35	45	39	34	32
8	60	46	38	32	58	45	37	32	44	37	31	42	36	31	41	35	31	29
9	56	42	34	29	54	42	34	29	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	36	30	25	35	29	25	23

POLAR GRAPH



Maximum Candela = 6217 Located At Horizontal Angle = 0, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)